**FACILITY NAME AND PERMIT NUMBER:** 

SHCC/ESU VA0062499

FORM

2A NPDES

### NPDES FORM 2A APPLICATION OVERVIEW

APR 2 3 2012
Tidewater Region

#### **APPLICATION OVERVIEW**

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

#### **BASIC APPLICATION INFORMATION:**

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

#### SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  - 2. Any other industrial user that
    - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
    - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

#### ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

FACILITY NAME	AND	PERMIT	NUMBER
SHCC/ESU	J	VAOO	62499

#### BASIC APPLICATION INFORMATION

PAF	TA. BASIC APP	LICATION INFORMATION FOR ALL	L APPLICANTS:					
All tı	eatment works must	complete questions A.1 through A.8 of t	this Basic Application	n Information packet.	•			
A.1.	Facility Information.							
	Facility name	Southampton Correctional Center / Environmental Services Unit (SHCC/ESU)						
	Mailing Address	14545 Old Belfield Road						
		Capron, Virginia 23829		· · · · · · · · · · · · · · · · · · ·				
	Contact person	Dallas L. Phillips	&	Steve Bolton				
	Title	Environmental Services Mana	ger	Treatment Pla	ant Supervisor			
	Telephone number	757-925-2212, ext. 5012		434-658-3956	6			
	Facility Address	VADOC, 1001 Obici Industrial	Blvd., Suite F	SHCC, 14545	Old Belfield Road			
	(not P.O. Box)	Suffolk, Virginia 23434		Capron, Virgit	nia 23829			
.2.	Applicant Informati	on. If the applicant is different from the above	ve, provide the followin	g:	•			
	Applicant name	Virginia Department of Corrections	s	VADOC				
	Mailing Address	6900 Atmore Drive		1001 Obici Indus	trial Blvd., Suite F			
		Richmond, Virginia 23225	Virginia 23225		Suffolk, Virginia 23434			
	Contact person	Timothy G. Newton		Dallas L. Phillips	5.			
	Title	Environmental Services Direct	tor	Environmental	Services Manager			
	Telephone number	804-674-3303, ext. 1195		757-925-2212,	ext. 5012			
	Is the applicant the owner or operator (or both) of the treatment works?  owner operator Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.  facility							
3.	Existing Environme (include state-issued	ental Permits. Provide the permit number of permits).	fany existing environm	ental permits that have	e been issued to the treatment works			
	NPDES VA00624	99	_ PSD					
	UIC	***************************************	Othe	Ground Water Wi	ithdrawal Permit No. GW0049100			
	RCRA		_ Othe	r				
4.	Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).							
	Name	Population Served	Type of Colle	ction System	Ownership			
	Deerfield Correctional Cent	2003	Separate		State / VADOC			
	Southampton County Jail W	ork Camp 49	Separate	<u> </u>	Southampton County			
	Total po	putation served 2052			**************************************			

=					
٠.	Indian Country.			~	
	a. Is the treatment works located in Indian	Country?			
	Yes <b>✓</b>	No			
	b. Does the treatment works discharge to through) Indian Country?	a receiving water that is either	r in Indian Country or that is ups	stream from (and even	tually flows
	Yes	No			
.6.	Flow. Indicate the design flow rate of the to daily flow rate and maximum daily flow rate month of "this year" occurring no more than	for each of the last three year	rs. Each year's data must be ba	s built to handle). Also sed on a 12-month tim	provide the ave se period with the
	a. Design flow rate450m	gd			
		Two Years Ago	Last Year	This Year	
	b. Annual average daily flow rate	.175	167	.144	mgd
	c. Maximum daily flow rate	.632	.476	.206	mgd
	Separate sanitary sewer  Combined storm and sanitary se	wer		100	% ————————————————————————————————————
.8.	Discharges and Other Disposal Method	<b>'5</b>			
				<i>1</i>	
	a. Does the treatment works discharge ef			<b>✓</b> Yes	No
	If yes, list how many of each of the folk  i. Discharges of treated effluent	owing types of discharge poin	is the dealment works uses.	Yes	
	<b>.</b>				
	ii Discharges of untroated or partially	r transford officernt		No	
	ii. Discharges of untreated or partially	ricated effluent		No No	······
	iii. Combined sewer overflow points				
	iii. Combined sewer overflow points iv. Constructed emergency overflows			No	
	iii. Combined sewer overflow points			No No	
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge et	(prior to the headworks)  Thuent to basins, ponds, or other	ner surface impoundments	No No No	√ No
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge elithat do not have outlets for discharge to	(prior to the headworks)  Fluent to basins, ponds, or other or other to basins.	ner surface impoundments 	No No	No
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge et	(prior to the headworks)  Fluent to basins, ponds, or other or other to basins.	ner surface impoundments	No No No	No
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge eithat do not have outlets for discharge to the type, provide the following for each se	(prior to the headworks)  fluent to basins, ponds, or other of the U.S.?	·	No No No	No
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge el that do not have outlets for discharge t if yes, provide the following for each su Location:	(prior to the headworks)  Fluent to basins, ponds, or other or waters of the U.S.?  Inface impoundment:		No No No	
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge eithat do not have outlets for discharge tif yes, provide the following for each st Location:  Annual average daily volume discharge.	(prior to the headworks)  Fluent to basins, ponds, or other or waters of the U.S.?  Inface impoundment:		No No No	mgd
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge eithat do not have outlets for discharge tif yes, provide the following for each st Location:  Annual average daily volume discharge.	(prior to the headworks)  filtient to basins, ponds, or oth o waters of the U.S.?  Inface impoundment:  ed to surface impoundment(s)  is or intermitted.		No No No	
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge et that do not have outlets for discharge t if yes, provide the following for each su Location:  Annual average daily volume discharge is discharge	(prior to the headworks)  fluent to basins, ponds, or oth o waters of the U.S.?  Inface impoundment:  ed to surface impoundment(s) is or intermitible eated wastewater?		No No No	mgd
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge eithat do not have outlets for discharge to the following for each standard average daily volume discharge is discharge continued. c. Does the treatment works land-apply to the following for each land-apply to the following	(prior to the headworks)  fluent to basins, ponds, or oth o waters of the U.S.?  Inface impoundment:  ed to surface impoundment(s) is or intermitible eated wastewater?		No No No	mgd
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge et that do not have outlets for discharge t if yes, provide the following for each se Location:  Annual average daily volume discharge ls discharge	(prior to the headworks)  fluent to basins, ponds, or oth o waters of the U.S.?  Inface impoundment:  ed to surface impoundment(s) is or intermited to application site:	ent?	No No No	mgd
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge eithat do not have outlets for discharge tif yes, provide the following for each subscription:  Annual average daily volume discharge is discharge continuous c. Does the treatment works land-apply truly yes, provide the following for each late Location: Number of acres:  Annual average daily volume applied to	(prior to the headworks)  iffluent to basins, ponds, or off o waters of the U.S.?  Inface impoundment:  ed to surface impoundment(s)  is or intermitty  eated wastewater?  nd application site:	ent?	No No No	mgd
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge eithat do not have outlets for discharge tif yes, provide the following for each subscription:  Annual average daily volume discharge is discharge continuous c. Does the treatment works land-apply truly yes, provide the following for each late Location: Number of acres:  Annual average daily volume applied to	(prior to the headworks)  iffluent to basins, ponds, or off o waters of the U.S.?  inface impoundment:  ed to surface impoundment(s) is or intermitty  eated wastewater?  nd application site:	ent?	No No No	mgd
	iii. Combined sewer overflow points iv. Constructed emergency overflows v. Other  b. Does the treatment works discharge eithat do not have outlets for discharge tif yes, provide the following for each subscription:  Annual average daily volume discharge is discharge continuous c. Does the treatment works land-apply truly yes, provide the following for each late Location: Number of acres:  Annual average daily volume applied to	(prior to the headworks)  fituent to basins, ponds, or oth o waters of the U.S.?  Inface impoundment:  ed to surface impoundment(s)  is or intermitty  eated wastewater?  Ind application site:  Intinuous or in	ent?  Mgd termittent?	No No No	mgd

FACILITY NAME AND PERMIT NUMBER:

## FACILITY NAME AND PERMIT NUMBER: SHCC/ESU VA0062499

If transport is by a party	other than the applicant, provide:		
Transporter name:		<u> </u>	
Mailing Address:			
Contact person:			
Title:			
Telephone number:		,	
Name:			
	•		
Name:			
Mailing Address:			
	,	<del></del>	
Contact names		<del></del> .	
" -			
Title:			
Contact person: Title: Telephone number: If known, provide the A			
Title: Telephone number: If known, provide the N	PDES permit number of the treatment works that receives this discharge. By flow rate from the treatment works into the receiving facility.		mge
Title: Telephone number: If known, provide the N Provide the average da Does the treatment wo	PDES permit number of the treatment works that receives this discharge.	Yes	mge
Title: Telephone number: If known, provide the N Provide the average da Does the treatment wo A.8.a through A.8.d ab	PDES permit number of the treatment works that receives this discharge.  ily flow rate from the treatment works into the receiving facility.  Its discharge or dispose of its wastewater in a manner not included in		
Title: Telephone number: If known, provide the N Provide the average da Does the treatment wo A.8.a through A.8.d ab If yes, provide the follo	PDES permit number of the treatment works that receives this discharge.  ily flow rate from the treatment works into the receiving facility.  rics discharge or dispose of its wastewater in a manner not included in ove (e.g., underground percolation, well injection)?		

FACILITY NAME AND PERMIT NUMBER:

SHCC/ESU VA0062499

From Approved 1/14/99
OMB Number 2040-0086

#### **WASTEWATER DISCHARGES:**

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

a.	Outfall number	001						
a.		C	interest or	22020				
b.	Location	Capron (City or town, if applicable)		23829 (Zip Code)				
		Southampton		Virginia				
		(County) N36 Degrees 43 Minutes 45.88 Seconds		(State) W77 Degrees 15 Minutes 6.29 Seconds				
		(Latitude)		(Longitude)				
C,	Distance from shore (	if applicable)	12	ft.				
d.	Depth below surface (	îf applicable)	.5	ft				
_			.162					
e.	Average daily flow rate		102	mgd				
f.	Does this outfall have	either an intermittent or a periodic						
	discharge?		✓ Yes	No (go to A.9.g.)				
	If yes, provide the folk	wing information:						
			2020					
	Number of times per y	rear discharge occurs:	2920					
	Average duration of ea	ach discharge:	64 minutes per decant cycle					
	Average flow per disci	Average flow per discharge:		.312. mgd				
				<del></del>				
	Months in which disch	rarge occurs:	All 12 months	· · · · · · · · · · · · · · · · · · ·				
g.	Months in which disch	_	All 12 months Yes	No No				
		h a diffuser?		No No				
0. De	Is outfall equipped wit	h a diffuser? g Waters.	Yes	**************************************				
_	is outfall equipped wif	h a diffuser? g Waters.		**************************************				
10. De	Is outfall equipped wit	th a diffuser?  g Waters.  ter Three Creeks Trib	Yes	rer				
0. De a.	Is outfall equipped wit escription of Receiving Name of receiving wat Name of watershed (if	h a diffuser?  g Waters.  ter Three Creeks Trib	Yes  utary to the Nottoway Riv  Chowan River and Disma	rer al Swamp				
10. De	Is outfall equipped wit escription of Receiving Name of receiving wat Name of watershed (if	th a diffuser?  g Waters.  ter Three Creeks Trib	Yes  utary to the Nottoway Riv  Chowan River and Disma	rer				
10. De	Is outfall equipped wit escription of Receiving Name of receiving wat Name of watershed (if United States Soil Con	th a diffuser?  g Waters.  Three Creeks Trib  known)  nservation Service 14-digit waters	Yes  utary to the Nottoway Riv  Chowan River and Disma	rer al Swamp				
a.	Is outfall equipped wit escription of Receiving Name of receiving wat Name of watershed (if United States Soil Con	h a diffuser?  g Waters.  ter Three Creeks Trib	Yes  ulary to the Nottoway Riv  Chowan River and Dismented code (if known):	rer al Swamp				
a.	Is outfall equipped with escription of Receiving Name of receiving watershed (if United States Soil Coloname of State Management)	th a diffuser?  g Waters.  Three Creeks Trib  known)  nservation Service 14-digit waters	Yes  utary to the Nottoway Riv  Chowan River and Dismander and Code (if known):  Unknown	er al Swamp Unknown				
10. De a. b.	Is outfall equipped with escription of Receiving Name of receiving wall Name of watershed (if United States Soil Con Name of State Manag United States Geologic	th a diffuser?  g Waters.  ter Three Creeks Trib  f known)  nservation Service 14-digit waters  ement/River Basin (if known):  cal Survey 8-digit hydrologic cata	Yes  utary to the Nottoway Riv  Chowan River and Dismander and Code (if known):  Unknown	er al Swamp Unknown				
a. b.	Is outfall equipped with escription of Receiving Name of receiving wall Name of watershed (if United States Soil Con Name of State Manag United States Geologic Critical low flow of receiving with the states of th	th a diffuser?  g Waters.  ter Three Creeks Tribs  f known)  nservation Service 14-digit waters  ternent/River Basin (if known):  cal Survey 8-digit hydrologic cata  eiving stream (if applicable):	utary to the Nottoway Riv Chowan River and Disma shed code (if known): Unknown	er al Swamp Unknown Unknown				
a. b. c.	Is outfall equipped with escription of Receiving watershed (if United States Soil Con Name of State Manag United States Geologic Critical low flow of receiving watershed (if the control of the control	th a diffuser?  g Waters.  ter Three Creeks Trib  f known)  nservation Service 14-digit waters  ement/River Basin (if known):  cal Survey 8-digit hydrologic cata	utary to the Nottoway River and Dismethed code (if known):  Unknown  loging unit code (if known):	er  Unknown  Unknown  G cfs				

FACILITY NAME AN	D PERMIT NUI	WBER:	
SHCC/ESU	VA00624	<b>499</b>	

111 Dec					· · ·					
3111 1/63	scription of Tre	eatment.								
a.	What levels of	treatment are	provide	d? Che	ck all that app	oly.		•		
	Pr	imary			Secon	ndary				
	A	ivanced			Other	. Describe:				
b.	Indicate the fol	lowing remova	al rates (	(as appl	icable):					
	Design BOD <sub>c</sub> I	emoval <u>or</u> De	sign CB	OD, rei	moval			96	<u></u> %	
	Design SS rem	oval		•				96	%	
	Design P remo	val						75	%	•
	Design N remo							90	 %	
	•	· ezzi							%	
	Other					.e. Wea 15 15 15 15	************		<del></del>	
C.		isinfection is	used for	the ettl	uent from th	s outfall? If disinfe	ction varies by	season, piea:	se describe.	
	Ultraviolet									
	If disinfection i	s by chlorinat	ion, is de	echlorin	ation used fo	r this outfall?	-	Ye	es	No
d.	Does the treat	nent plant hav	ve post a	eration	?		•	Y∈	es	No
disc coll 40 (	charged. Do r lected through CFR Part 136	ide the indic lot include in analysis co and other ap	ated eff nformati nducted propriat	ion on d d using te QA/G	esting requi combined s y 40 CFR Par QC requirem	t 136 methods. I ents for standard	iting authorit n this section in addition, th i methods fo	ı. All informai nis data must r analytes no	tion reported mu comply with QA	st be based on data /QC requirements of 0 CFR Part 136. At a
par <u>dîs</u> coll 40 ( mîr	charged. Do r lected through CFR Part 136 a nimum, effluen tfall number:	ide the indic not include in nanalysis co and other ap t testing dat	ated eff nformati nducted propriat a must l	fluent to ion on o d using te QA/G be base	esting requi combined s y 40 CFR Par QC requirem ed on at leas	ewer overflows in t 136 methods. ents for standard st three samples	iting authorit n this section in addition, th i methods fo	i. All informat his data must r analytes no no more thai	tion reported must comply with QA taddressed by 4 n four and one-ha	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.
par <u>dîs</u> coll 40 ( mîr	charged. Do r llected through CFR Part 136 a nimum, effluen	ide the indic not include in nanalysis co and other ap t testing dat	ated eff nformati nducted propriat a must l	fluent to ion on o d using te QA/G be base	esting requi combined s y 40 CFR Par QC requirem	ewer overflows in t 136 methods. ents for standard st three samples	iting authorit n this section in addition, th i methods fo	i. All informat his data must r analytes no no more thai	tion reported mu comply with QA t addressed by 4	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.
par <u>dîs</u> coll 40 ( mîr	charged. Do r lected through CFR Part 136 a nimum, effluen tfall number:	ide the indic not include in nanalysis co and other ap t testing dat	ated eff nformati nducted propriat a must l	Huent to ion on o d using te QA/G be base 601	esting requi combined s y 40 CFR Par QC requirem ed on at leas	ewer overflows in t 136 methods. ents for standard st three samples	iting authorit n this section in addition, th i methods fo	a. All informations data must ranalytes no no more than AVE	tion reported must comply with QA taddressed by 4 n four and one-ha	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.
par <u>dîs</u> coll 40 ( mîr	charged. Do r llected through CFR Part 136 a nimum, effluen tfall number: PARAME	ide the indic not include in nanalysis co and other ap t testing dat	ated eff nformati nducted propriat a must l	Ruent to ion on o d using te QA/G be base 601	esting requi combined s y 40 CFR Par QC requirem ed on at lease IAXIMUM DA	ewer overflows in the 136 methods. ents for standard st three samples	itting authorit n this section in addition, th i methods for and must be	a. All informations data must ranalytes no no more than AVE	tion reported must comply with QA taddressed by 4 n four and one-high RAGE DAILY VA.	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.
par disc coll 40 c mir Out	charged. Do r llected through CFR Part 136 a nimum, effluer tfall number: PARAME	ide the indic not include in nanalysis co and other ap t testing dat	ated eff nformati nducted propriat a must l	Ruent to ion on of drusing te QA/G be base 601	esting requi combined s y 40 CFR Par gC requirem ed on at least IAXIMUM DA	ewer overflows in the 136 methods. ents for standard st three samples willy VALUE	itting authorit n this section in addition, th i methods for and must be	All informations data must ranalytes no more than	tion reported must comply with QA taddressed by 4 n four and one-his	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.
par dis- coll 40 ( mir Out	charged. Do r llected through CFR Part 136 a nimum, effluen tfall number: PARAME mum)	ide the indic not include in nanalysis co and other ap t testing dat	ated eff nformati nducted propriat a must l	Ruent trion on of using the QA/C be base 801	esting requi combined s y 40 CFR Par QC requirem ed on at lease IAXIMUM DA alue	ewer overflows int 136 methods. ents for standard st three samples  Units  S.U.	itting authorit n this section in addition, th i methods for and must be	All informations data must ranalytes no more than	tion reported must comply with QA taddressed by 4 n four and one-high RAGE DAILY VA.	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.
par dis- coll 40 ( mir Out pH (Minin pH (Maxir Flow Rate	charged. Do r llected through CFR Part 136 a nimum, effluen tfall number: PARAME mum)	ide the indic not include in nanalysis co and other ap t testing dat	ated eff nformati nducted propriat a must l	Ruent trion on dusing the QA/G be base 601	esting requi combined s y 40 CFR Par QC requirem ed on at lease  IAXIMUM DA alue  6.1  8.8  632  Degrees	ewer overflows int 136 methods. ents for standard st three samples  WILY VALUE  Units  S.U.  S.U.  mgd (Recorded)	value	All informations data must ranalytes no more than AVE	tion reported must comply with QA taddressed by 4 to four and one-his RAGE DAILY VA.  Units  Industry (Recorded)	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.  UE  Number of Samples  790 (10, 11, 12)  240 (10, 11, 12)
par dis- coll 40 ( mir Out PH (Minin pH (Maxir Flow Rate Temperat	charged. Do r llected through CFR Part 136 a nimum, effluer ffall number: PARAME num) mum) e ture (Winter)	ide the indic not include in analysis co and other ap t testing dat	ated effi formati nducter propriat a must	Ruent trion on dusing the QA/G be base 801	esting requi combined s J 40 CFR Pai QC requirem ed on at leas  IAXIMUM DA  alue  6.1  8.8  632  Degrees  Degrees	ewer overflows in tage of the tage of tage	iting authorit in this section in addition, th is methods for and must be  Value	All informations data must ranalytes no more than AVE	tion reported mu: comply with QA t addressed by 4 n four and one-ha RAGE DAILY VA. Units	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.  UE  Number of Samples
par dis- coll 40 ( mir Out PH (Minin pH (Maxir Flow Rate Temperat	charged. Do relected through CFR Part 136 animum, effluer trail number: PARAME mum) mum) e ture (Winter)	ide the indicion include in analysis cound other applicated testing date.	ated effiformati inducted propriata a must	Muent to ion on of using the QA/G be based on the total of the total o	esting requi combined s J 40 CFR Pai QC requirem ed on at lease  IAXIMUM DA  alue  8.8  632  Degrees  Degrees  Lim daily valu W DAILY	ewer overflows in the 136 methods. ends for standard stan	value	Alt informations data must ranalytes no no more than AVE	tion reported must comply with QA taddressed by 4 to four and one-his RAGE DAILY VA.  Units  Industry (Recorded)	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.  UE  Number of Samples  790 (10, 11, 12)  240 (10, 11, 12)
par dis- coll 40 ( mir Out PH (Minin pH (Maxir Flow Rate Temperat	charged. Do r llected through CFR Part 136 a nimum, effluer  ffall number:  PARAME  mum)  mum)  e  ture (Winter)  ture (Summer)  or pH please re	ide the indicion include in analysis cound other applicated testing date.	ated effiformati inducted propriata a must	Muent to ion on of using the QA/G be based on the passed o	esting requi combined s J 40 CFR Pai QC requirem ed on at lease  IAXIMUM DA  alue  8.8  632  Degrees  Degrees  Lim daily valu W DAILY	ewer overflows in the 136 methods. ends for standard stan	value  162 57 Degree  81 Degree	Alt informations data must ranalytes no no more than AVE	tion reported must comply with QA t addressed by 4 the four and one-his comply with QA the four and one-his comply with QA Units Tehrenheit  ANALYTICAL	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.  UE  Number of Samples  790 (10, 11, 12)  240 (10, 11, 12)  184 (10, 11, 12)
par dis- coll 40 ( mir Out PH (Minin PH (Maxir Flow Rate Temperat * Fo	charged. Do r llected through CFR Part 136 a nimum, effluer  ffall number:  PARAME  mum)  mum)  e  ture (Winter)  ture (Summer)  or pH please re	ide the indiciot include in analysis cound other applicate testing dat	m and a	Marit to ion on of using the QA/G be based on the total of the total o	esting requi combined s y 40 CFR Pai y 40 CF	ewer overflows in tage methods. ents for standard standar	value  The property of the pro	All informations data must ranalytes no more than AVE	tion reported must comply with QA t addressed by 4 the four and one-his comply with QA the four and one-his comply with QA Units Tehrenheit  ANALYTICAL	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.  UE  Number of Samples  790 (10, 11, 12)  240 (10, 11, 12)  184 (10, 11, 12)
per discollection of the collection of the colle	charged. Do relected through CFR Part 136 a nimum, effluer ffall number:  PARAME  mum)  mum)  e  ture (Winter)  ture (Summer) or pH please re	ide the indicion include in analysis cound other aport testing dat	m and a	Muent to ion on od using the QA/G be based on the total of the total o	esting requi combined s y 40 CFR Pai y 40 CF	ewer overflows in tage methods. ents for standard standar	value  The property of the pro	All informations data must ranalytes no more than AVE	tion reported must comply with QA t addressed by 4 the four and one-his comply with QA the four and one-his comply with QA Units Tehrenheit  ANALYTICAL	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.  UE  Number of Samples  790 (10, 11, 12)  240 (10, 11, 12)  184 (10, 11, 12)
par dis coll 40 ( mir Out  pH (Minin pH (Maxir Flow Rate Temperat * Fo	charged. Do relected through CFR Part 136 animum, effluen ffall number: PARAME  num) mum) e ture (Winter) ture (Summer) or pH please re POLLUTANT	ide the indicion include in analysis cound other aport testing dat	m and a	Muent to on one of using the QA/G be based on the total of the total o	esting requi combined s y 40 CFR Pai y 40 CF	ewer overflows in tage methods. ents for standard standar	value  The property of the pro	All informations data must ranalytes no more than AVE	tion reported must comply with QA t addressed by 4 the four and one-his comply with QA the four and one-his comply with QA Units Tehrenheit  ANALYTICAL	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.  UE  Number of Samples  790 (10, 11, 12)  240 (10, 11, 12)  184 (10, 11, 12)
par dis- coll 40 ( mir Out PH (Minin pH (Maxir Flow Rate * Fo	charged. Do relected through CFR Part 136 animum, effluer fall number:  PARAME  PARAME  mum)  ture (Winter)  ture (Summer)  or pH please relected the pollutant	ide the indicion include in analysis cound other apit testing date.  TER  CONCONVEN  BOD-5  CBOD-5	m and a  MA  Cor	Muent to ion on od using the QA/G be based on the total of the total o	esting requi combined s y 40 CFR Pai QC requirem ed on at lead  IAXIMUM DA  alue  8.1  8.8  632  Degrees  Degrees  Um daily valu  Units  POUNDS.	ewer overflows in tase methods. ents for standard standar	value  The property of the property of the section	All informations data must ranalytes no no more than AVE	tion reported must comply with QA t addressed by 4 the four and one-his comply with QA the four and one-his comply with QA the four and one-his complete the four and the four	st be based on data /QC requirements of 0 CFR Part 136. At a alf years apart.  UE  Number of Samples  790 (10, 11, 12)  240 (10, 11, 12)  184 (10, 11, 12)  ML / MDL

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM **2A YOU MUST COMPLETE** 

FACILITY NAME AND PERMIT NUMBER:

SHCC/ESU

VA0062499

R	ASIC	APPI	ICA7	<b>TION</b>	INFOR	ZMA	TION
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<u>3A</u>	SIC	APPLICATION INFORMATION
AR	T B.	ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
∖ll a <sub>l</sub>	pplica	nts with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
3.1.	Unkr Brief	ow and infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.  The second at times. gpd  The second at times gpd  The seco
3.2.	Top	ographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This
	map area a. b.	must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire
		Each well where wastewater from the treatment plant is injected underground.
	d.	Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e.	Any areas where the sewage studge produced by the treatment works is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
3.3.	decu bowe	ess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup or sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and lorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between ment units. Include a brief namative description of the diagram.  See Affection en f. florts. B.3.
3 <i>.4</i> .	Oper	ration/Maintenance Performed by Contractor(s).
		eny operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a actor? Yes 1 No
		s, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages ressary).
	Nam	e:
	Maili	ng Address:
	Tele	phone Number:
•	Resp	onsibilities of Contractor.
3.5.	unco treat	eduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or impleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the ment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for a (If none, go to question B.6.)
	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.  N/A
	b.	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.
		Yes No

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From Approved 1/14/99
OMB Number 2040-0086

c If the answer to B.5	i.b is "Yes," briefly <sub>N/A</sub>	describe, includ	ing new maximum	n daily inflow rate	(if applicable).		
d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.							
		Schedule	Ac	ctual Completion			
Implementation Sta	ge	MM / DD /	YYYY MN	I/DD/YYYY			
- Begin constructio	n			_1			
- End construction			<u></u>				
– Begin discharge							
- Attain operational	level			1_1_			
e. Have appropriate p		~	r Federal/State re	•	ı obtained? —	YesNo	
B.6. EFFLUENT TESTING D	ATA /ODEATED	,					•
Applicants that discharge required by the permitting this section. All informations data must comply with addressed by 40 CFR I and one-half years old.  Outfall Number:	ng authority <u>for ea</u> tion reported mus QA/QC requireme	ch outfall through at be based on da ants of 40 CFR P	n which effluent is ata collected throu art 136 and other	s discharged. Do ugh analysis con- appropriate QA/	not include info ducted using 40 QC requiremen	ormation on combined OCFR Part 136 method its for standard method	sewer overflows in is. In addition, this is for analytes not
POLLUTANT	D.	M DAILY IARGE	AVERAG	SE DAILY DISCH	HARGE		
	Conc.	Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML / MDL
CONVENTIONAL AND NONC	ONVENTIONAL	COMPOUNDS.					
AMMONIA (as N)	0.69	mg/l	0.24	mg/l	12	SM 4500-NH3-F, 18th Ref.	MDL
CHLORINE (TOTAL RESIDUAL, TRC)	0.0 or <ql< td=""><td>mg/l</td><td>0.0 or <ql< td=""><td>mg/l</td><td>. 3</td><td>HACH DR-100</td><td>MDL</td></ql<></td></ql<>	mg/l	0.0 or <ql< td=""><td>mg/l</td><td>. 3</td><td>HACH DR-100</td><td>MDL</td></ql<>	mg/l	. 3	HACH DR-100	MDL
DISSOLVED OXYGEN	11.5	mg/I	7.8	mg/l	790	SM 45000G, 19th Ed.	MDL
TOTAL KJELDAHL NITROGEN (TKN)	1.4	mg/l	1.0	mg/l	14	SM 4500-NH3-F, 18th. Ref.	MDL
NITRATE PLUS NITRITE NITROGEN	9.7	mg/l	7.2	mg/l	3	EPA 352.1	MDL.
OIL and GREASE	<mdl <6.3<="" or="" td=""><td>mg/l</td><td><mdlor<6.3< td=""><td>mg/l</td><td>3</td><td>1664A</td><td>MEN.</td></mdlor<6.3<></td></mdl>	mg/l	<mdlor<6.3< td=""><td>mg/l</td><td>3</td><td>1664A</td><td>MEN.</td></mdlor<6.3<>	mg/l	3	1664A	MEN.
PHOSPHORUS (Total)	8.1	mg/l	6.1	mg/l	3	SM 4500 PE, 20th Ed.	MDL
TOTAL DISSOLVED SOLIDS (TDS)	494.0	mg/l	443.3	mg/l	3	SM 2540C, 20th Ed.	MDL
OTHER	N/A						

# END OF PART B. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERI	NIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-0086				
SHCC/ESU VA	.0062499	One Number 2000				
BASIC APPLICATION INFORMATION						
PART C. CERTIFICATION						
All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.						
Indicate which parts o	f Form 2A you have completed and are submitti	ng:				
Basic Application	Information packet Supplemental Application	n Information packet:				
	Part D (Expan	ed Effluent Testing Data)				
	Part E (Toxicit	Testing: Biomonitoring Data)				
	Part F (Industr	at User Discharges and RCRA/CERCLA Wastes)				
	Part G (Combi	ed Sewer Systems)				
ALL APPLICANTS MUST C	OMPLETE THE FOLLOWING CERTIFICATION.					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.						
Name and official title	Timothy G. Newton, Environmental Services	birector				
Signature	Jan					
Telephone number	804-674-3303, ext. 1195					
Date signed	4/11/12					
Upon request of the permitting or identify appropriate permitting		cessary to assess wastewater treatment practices at the treatment works				

SEND COMPLETED FORMS TO: